Model 103H
Side Relief Outlet Valve, Soft Seat

Features

- Precision Machined Brass Inlet
- Red Brass Body
- Viton Disc For Soft Seat Performance
- Stainless Steel Spring
- NPT Side Outlet for Direct Connection
- Liquid & Non-Code Air Applications
- Maximum Temperature 250 °F
- Available Sizes: 1/4” NPT
- Set Pressure Range 5-500 PSIG

<table>
<thead>
<tr>
<th>Model</th>
<th>Inlet Size</th>
<th>Orifice</th>
<th>Height (A)</th>
<th>Hex (B)</th>
<th>Width (C)</th>
<th>Set Pressure Range (PSIG)</th>
<th>Approx. Shipping Wt.</th>
<th>Max Temp. (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>103H</td>
<td>1/4” NPT</td>
<td>0.25</td>
<td>3”</td>
<td>1-1/4”</td>
<td>3/4”</td>
<td>5-500</td>
<td>5 oz.</td>
<td>250 °F</td>
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</tbody>
</table>

Materials

<table>
<thead>
<tr>
<th>No.</th>
<th>Part Name</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>Brass</td>
</tr>
<tr>
<td>2</td>
<td>Base</td>
<td>Brass</td>
</tr>
<tr>
<td>3</td>
<td>Cap</td>
<td>Brass</td>
</tr>
<tr>
<td>4</td>
<td>Stem Assembly, Item No. 6 &amp; 10</td>
<td>Brass</td>
</tr>
<tr>
<td>5</td>
<td>Adjusting Screw</td>
<td>Brass</td>
</tr>
<tr>
<td>6</td>
<td>Stem</td>
<td>Brass</td>
</tr>
<tr>
<td>7</td>
<td>Spring</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>8</td>
<td>Gasket</td>
<td>Com’l Copper</td>
</tr>
<tr>
<td>9</td>
<td>Lock Nut</td>
<td>Brass</td>
</tr>
<tr>
<td>10</td>
<td>Disc (Stem)</td>
<td>Viton</td>
</tr>
</tbody>
</table>
**Kingston Model 103H Side Relief Outlet Valve, Soft Seat**

**Flow Capacity Information**

**Fig. 103H - 1/4”**

**Ordering Information**

**Kingston Safety Relief Valve**

Part Number Codes

Valve Model
- 103H

Size
2 = 1/4” NPT

Relief Pressure Setting
5 psi increments
Ex. 25 psi = -025
100 psi = -100

**Product Notes**

All Kingston Safety Valves are manufactured under a quality control system accepted by the National Board of Boiler and Pressure Vessel inspectors. Code valves are capacity certified by the National Board, manufactured in accordance with ASME Code, set and sealed at the factory.

Set pressure can deviate from the marked by ± 2 psig at or below 70 psig set pressures and ± 3% psig above 70 psig.

Factory standard seat tightness for hard seat valves: no audible leakage at 20% below nameplate set. It is normal for spring-operated safety valves to exhibit leakage or simmer/warn, as the system operating pressure approaches the set pressure. For hard seat valves this is typically occurs at pressure at or above 80% of nameplate set pressure.

At very low set pressure (20 psig and below), the ratio of the downward spring force as compared to the upward pressure force is very small. In these cases it may be impossible to achieve seat tightness.

Soft seat valves will typically provide a higher degree of seat tightness than metal, hard seats. Factory standard seat tightness does not ensure bubble-tight seal regardless of material. Storm Manufacturing reserves all rights. Product specifications are subject to change without notice.

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